

1532

2/83 File (RB) 3-12

Keen Mountain Air
in Your Office



Digitized by ASSOCIATION FOR PRESERVATION TECHNOLOGY

BUILDING TECHNOLOGY HERITAGE LIBRARY, www.apti.org for the

<https://archive.org/details/buildingtechnologylibrary>

From the collection of Alan O'Bright

A FOUR minute talk to business executives relative to the power of Ozone (O_3) in increasing the alertness, accuracy and efficiency of office employes—and at very small cost.

Pure Air Promotes Health

THE wide, open spaces of nature, such as the seashore, the snow-capped peaks, or the deep primeval forests, have ever been the favored haunts of man when in search of exuberant good health and joyful recreation.

Each season sees an exodus of persons traveling from the congested cities to the mountains and beaches in quest of more healthful air and to rebuild depleted energy.

On sunlit beach and windswept peak ozone abounds most plentifully, since it is generated in nature through the violet rays of sunlight and vivid lightning flash.

In heavily populated and congested areas the supply of ozone reaches its lowest ebb, since it is rapidly consumed in the process of oxidizing the waste products of civilization.

Since man first resorted to living in caves as a protection from the elements, maintenance of healthful air conditions indoors has been a vital problem. Science now offers you the means of making the air you breathe as pure as the water you drink through the use of ELECTROZONE purification.

We all work as we feel, and it has often been demonstrated that proper air conditions pay big dividends in increased production, decrease in errors, attention to detail and lessened labor turn-over and loss of time.



TYPE BF PORTABLE OZONATOR

This machine is used in offices, stores, hotels, kitchens, restaurants, clubs, theatres, and any room where the air becomes stuffy and oppressive. It is very easily set up by simply connecting to any electric light socket

Proper use of ELECTROZONE Ozonators will provide pure, stimulating, electric washed air in buildings wherever you work, worship, recreate, or have your abode.

Dull headaches, somnolence, mind wandering and restlessness are quickly recognized by alert business executives as the detrimental effects of bad ventilation.

Let us provide full information and quote you according to your individual requirement.



Ozone has been rightly called the "scavenger of the air."



CAPITOL THEATRE, SACRAMENTO, CAL.
Equipped with ELECTROZONE Ventilation

City Air is Impure

City air, at its best, is poor, often becoming contaminated with the bi-products of industry and when breathed attacks the vitality of the body and lowers the efficiency of the mind. In offices and similar places where the air conditions are below par, the cost to business due to decreased efficiency and slow listless work is beyond calculation.

Ordinary office air, especially in the afternoons becomes charged with the products of respiration which impart to it a dull, odorous and stagnant quality, which causes the room occupants to breathe less deeply than when surrounded by vibrant, sweet, pure air. This condition causes a lowered breathing

rate, which reduces vitality, and induces the listless state so often noticed among employees.

Impure air causes workers to slow down, get careless and make mistakes, thus a great labor loss—a costly economic loss—can be charged directly to impure air. Tobacco smoke, germ laden odors of breath and clothing, body odors caused by perspiration, and so-called house odors are the cause of air becoming vitiated and impure in places where people congregate. Not only does this cause a direct loss to the employer, but it impairs the health of the employees.

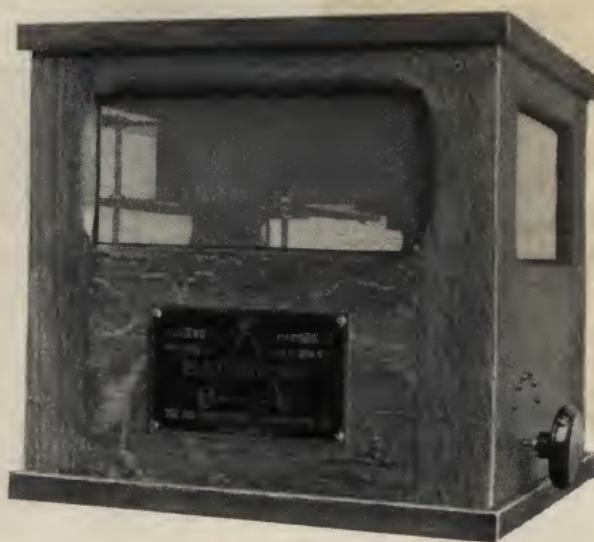
It would be an ideal condition if you could lift your office bodily with every employee in it and place it deep into a pine-clad forest, where every one could breathe pure, zipping, ozone laden air. Perhaps your business won't permit such heroic measures for the sake of increased efficiency, mental alertness, and physical health. But there is another way, certain and economical, by which you can bring pure ozone laden air equal to that from the forest, mountains and sea directly into your office.

Moving the office to the mountains is out of the question. So in this case, let us move the mountain air to the office.



Here's the Answer

Nature has an effective way of purifying the air through the agency of the electric storm. Lightning turns a part of the oxygen into ozone and the ozone then attacks the impure gases and literally burns them up through the process of rapid oxidation. Every one has noticed the stimulating freshness of the air immediately after an electrical storm.



TYPE C PORTABLE OZONATOR

Suitable for use in residences, small offices, etc.

Start an Electrical Storm in Your Office

You can set up in your office, home, store, or factory, a miniature electrical storm that will purify the air while the doors are closed, filling the room with air full of health giving ozone. This can be done simply, economically and surely with the ELECTROZONE Air Conditioner, a practical, scientifically constructed machine for the transformation of oxygen (O_2) into Ozone (O_3).

THE AIR CONDITIONING AND ENGINEERING COMPANY

Ozone Production

Ozone is defined by the chemist as an allotropic modification of oxygen in which three volumes of oxygen are condensed into two volumes.



TIMOTHY NICHOLSON SCHOOL
Richmond, Ind.

Equipped with ELECTROZONE Ventilation
Perkins, Fellows & Hamilton, Architects

The formula for oxygen is O_2 and the formula for Ozone is $O_2 + n$, since the positive and negative atoms of oxygen may unite to form molecules having three, four, or five atoms. Ozone is one and one-half times as heavy as oxygen and owing to the odd oxygen atom in the molecule it is a rather unstable element, since the extra atom seeks to form a union that will produce stability. It is this instability of ozone that forms its value in air conditioning since in the return to oxygen a high oxidizing effect is exercised that burns up any deleterious matter with which it may come into contact.

The O_3 Speeds Up Slow Workers

THE AIR CONDITIONING AND ENGINEERING COMPANY

Ozone is never isolated or obtained in a pure state free from oxygen and is present in greater or lesser degree in all air in the open country. Ozone is found in much higher percentages in air over the sea and in mountains away from the habitations of man. It is formed in nature in many ways, as in a certain portion of the spectrum forming ultra violet rays in sunlight, lightning discharges, and processes of evaporation and friction. It is produced most economically by exposing oxygen or air to an electrical discharge as is done in the ELECTROZONE Ozonator.



HOME OF DR. R. T. HENRY, SAINT LOUIS, MO.

ELECTROZONE keeps air fresh and free from odors

At a height of 20 kilometers in the Alps five parts of ozone per million parts of air were found present, while at an altitude of 2 kilometers only half this proportion.

Ozone is sadly lacking in cities and highly populated districts since it is rapidly used up by the great amount of decomposing animal and vegetable matter.

THE AIR CONDITIONING AND ENGINEERING COMPANY

Use of Ozone Abroad

Europeans have for many years made use of the wonderful possibilities of ozone. In London it is used to keep the air fresh in the tubes or subways, in many hospitals, stores and theatres. In France and Germany it is widely used for purifying municipal water supplies and for ventilating purposes.



ST. LOUIS MEDICAL BUILDING
St. Louis, Mo.

Mauran, Russell & Crowell, Architects; Hallett Engineering Co.,
Engineers. Equipped with ELECTROZONE Ventilation

Expert Authority Recommends Ozone

In a paper read before the American Society of Heating & Ventilating Engineers, one of its most noted members speaks with authority upon this interesting subject. He says in part, "What is that element or condition of the salt sea air or mountain valley that is so healing to the invalid and so delightful to all? It is simply the presence of ozone, of atomic oxygen. Ozone is not present in the air of

Eliminates the "Three O'clock Fatigue"

cities because it is quickly consumed by the decaying matter and oxidizable substances. It must now remain an indisputable fact that human beings require ozone as a normal constituent of the air, and the artificial supply of ozone is nothing but supplying the missing element which has disappeared, due to the results of dense population."

Referring to the use of ozone in schoolrooms, this authority further remarks, as follows: "The result was the immediate disappearance of all the stuffy condition and odors complained of. The remarkable thing was that every teacher and principal pronounced the ventilation perfect. They stated that the conduct of the children as to lessons and behavior was noticeably better. No drowsy afternoons followed; teachers stated that they were as fresh at the close of day as in the morning; colds and coughs nearly disappeared, and no contagious disease developed during a six weeks period when influenza was epidemic at that time.

Ozone does destroy all odors resulting from respiration, bodies and clothing of children. It produces a mild exhilaration resembling that of a sea breeze or the air on a morning after a thunderstorm. It destroys toilet odors. It is undoubtedly of great value in the treatment of influenza and pneumonia. To this should be added the evidence of the medical authorities of France that Ozone increased the oxyhaemoglobin of the blood, thereby increasing its oxygen-carrying capacity. This in turn cures aenemic persons. The introduction of ozone in ventilation would probably remove the necessity for open air schools now common in most cities."

This ventilating engineer is but one of many acknowledged authorities who have thoroughly investigated the remarkable benefits to be derived from ozone, and given full endorsement to the use of Ozonators.



BRYAN MULLANPHY SCHOOL, ST. LOUIS
Equipped with ELECTROZONE Ventilation

St. Louis Schools are known throughout the country for the beauty of their architectural design convenient academic arrangement, and the perfection of their mechanical equipment

Cost is Small

Fresh ozone laden air equal to that of the mountains, pine forests or seashore may be had in your office at no more operating cost than the ordinary electric lamp. No installation cost is required. The portable units are provided with cord and plug for connecting to an electric socket. The ELECTROZONE Air Conditioner may be installed without any cutting of walls, doors or windows or any other alterations, and no additional electric wiring.

The portable unit requires about as much space and is operated as easily as an electric fan.

Successful business houses and theatres have been quick to recognize the value of best air conditions, not on account of laws requiring ventilation but because it pays large dividends on the investment.

Insure Good Working Conditions

You cannot afford to tolerate other than the best air conditions in your office, store, factory, or residence, since health is the handmaiden of efficiency.

Theatres and amusement halls must provide best air conditions to attract their best patronage, and many churches are coming to realize the necessity of good ventilation.

During school age the youth of the nation spend about one-fourth of their time in the schoolroom, so nothing can be of greater necessity than the best healthful air conditions in all school buildings.

There is an ELECTROZONE Ozonator suitable for all conditions from the office where no mechanical ventilation is installed, to the greatest theatre where the air is warmed or cooled and washed, cleaned and humidified by the most complicated equipment.

Many applications of Ozonators can be made in connection with ventilating systems where the entire initial cost is saved in fuel expense in a few month's time.

Numerous testimonials of successful installations can be furnished on request.

Write or phone and our representative will gladly call.

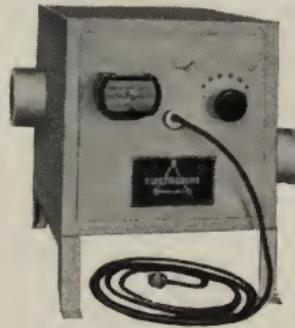




ELECTROZONE Ventilating Type Ozonator.

For schools, theatres, public buildings, etc., where mechanical ventilating equipment for fresh air supply is installed.

This apparatus includes in addition to the transformer and ozone generating units, an auxiliary blower, air filter, dehydrator and electric heating element for reactivating. Also a marble panel with ozone regulator, ozone meter, control switches, pilot lights, and time switch for the heater.



ELECTROZONE Ozonator for warm air furnaces. Renews and purifies the air, and removes all cooking and house odors.

Prices on application.

Address all inquiries

to

THE AIR CONDITIONING & ENGINEERING CO.

2914 S. Jefferson Avenue

ST. LOUIS, MO.

R. E. CHASE & CO.

AGENTS

Tacoma Bldg.

TACOMA, WASH.